

(19) World Intellectual Property  
Organization  
International Bureau



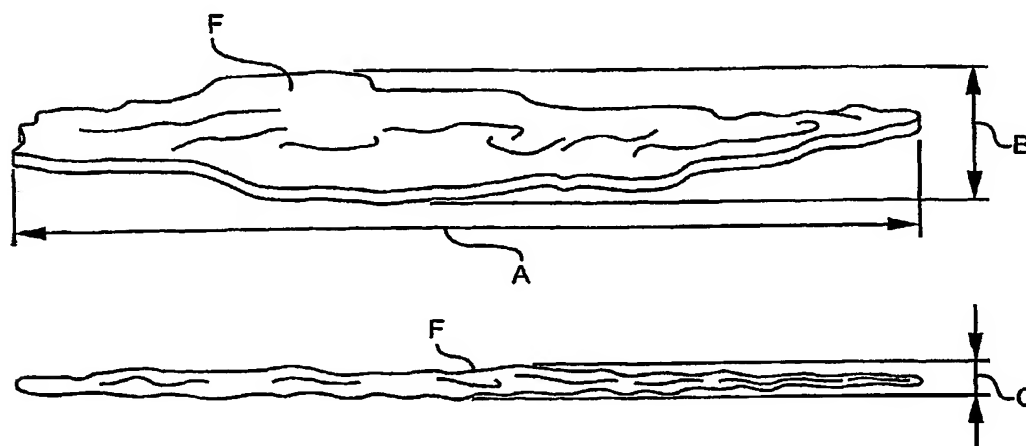
(43) International Publication Date  
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number  
**WO 2005/053617 A2**

- (51) International Patent Classification<sup>7</sup>: **A61K** (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (21) International Application Number: PCT/US2004/040034
- (22) International Filing Date: 29 November 2004 (29.11.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/525,448 28 November 2003 (28.11.2003) US
- (71) Applicant (for all designated States except US): **ALTER-NATIVE SOURCED COLLAGEN, LLC** [US/US]; 38 Orris Avenue, Piscataway, NJ 08854 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **LAURITZEN, Nels, J.** [US/US]; 38 Orris Avenue, Piscataway, NJ 08854 (US). **NICHOLS, Joseph** [US/US]; 28 Longview Drive, Princeton, NJ 08540 (US).
- (74) Agents: **KALOW, David** et al.; Kalow & Springut LLP, 488 Madison Avenue, 19th Floor, New York, NY 10022 (US).
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITIONS AND METHODS COMPRISING COLLAGEN



(57) Abstract: In various embodiments, a collagen product is provided that is derived from an animal, the collagen product comprises precipitated collagen that is substantially pure. In various embodiments, the collagen is obtained from a marine animal and does not contain prions or viruses. In various embodiments, the collagen can be made or incorporated into collagen films, collagen membranes, cosmetic collagen masks, collagen sponges, gelatin, hemostasis sponges, lyophilized foams, collagen injections, artificial skins and dura, bones, cartilage, screws, shafts, stems, or tube guides.